

## Lab Exercise 5– Terraform Variables with Command Line Arguments

### Objective:

Learn how to pass values to Terraform variables using command line arguments.

### Prerequisites:

- Terraform installed on your machine.
- Basic knowledge of Terraform variables.

### Steps:

#### 1. Create a Terraform Directory:

```
mkdir terraform-cli-variables  
cd terraform-cli-variables
```

#### 2. Create Terraform Configuration Files:

- Create a file named main.tf:

```
main.tf > provider "aws"  
1 terraform {  
2   required_providers {  
3     aws = {  
4       source = "hashicorp/aws"  
5       version = "5.32.1"  
6     }  
7   }  
8 }  
9 provider "aws" {  
0   region = var.region  
1   access_key = "AKIAZW6RGWG6KYNVNEET"  
2   secret_key = "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"  
3 }
```

- Create a file named variables.tf:

# variables.tf

```
variable.tf > variable "ami" > default
variable "region" {
  description = "AWS region"
  default = "ap-south-1"
}

variable "ami" {
  description = "AMI ID"
  default = "ami-03f4878755434977f"
}

variable "instance_type" {
  description = "EC2 Instance Type"
  default = "t2.micro"
}
```

### 3. Use Command Line Arguments:

```
PS E:\terraform-variables\terraform exp5> terraform init

Initializing the backend...

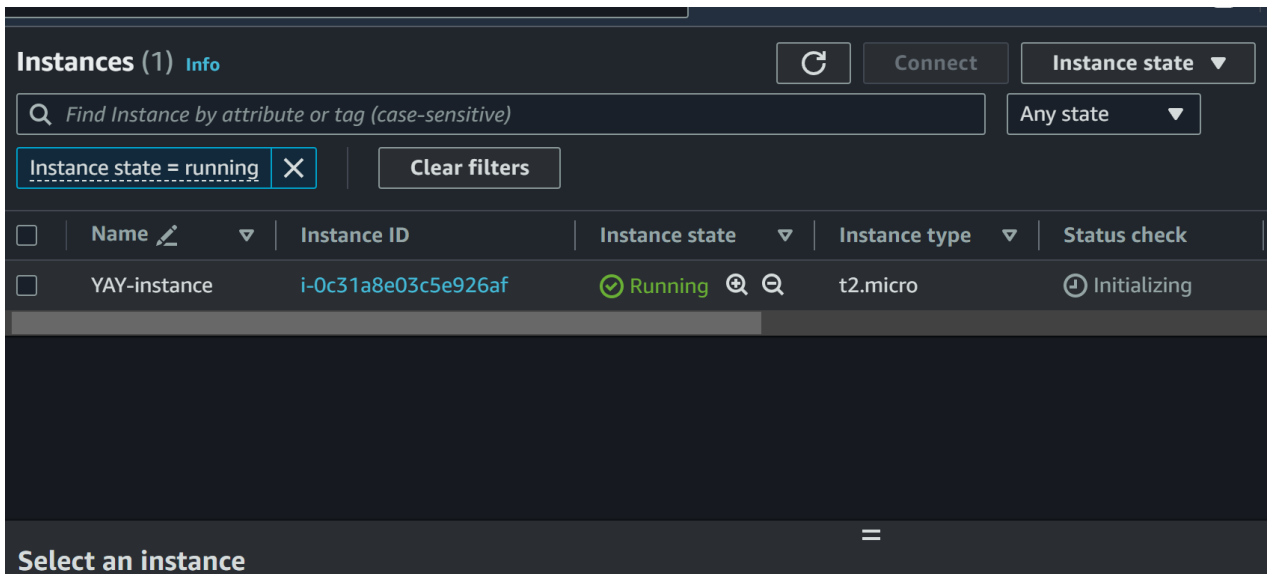
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.32.1

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
```

```
= "ami-03f4878755434977f"
```

## 4. Test and Verify:



## 5. Clean Up:

After testing, you can clean up resources:

```
terraform destroy
```

Confirm the destruction by typing yes.

```
aws_instance.YAYinstance[0]: Still destroying... [id=i-0c31a8e03c5e926af, 10s elapsed]
aws_instance.YAYinstance[0]: Still destroying... [id=i-0c31a8e03c5e926af, 20s elapsed]
aws_instance.YAYinstance[0]: Still destroying... [id=i-0c31a8e03c5e926af, 30s elapsed]
aws_instance.YAYinstance[0]: Destruction complete after 31s

Destroy complete! Resources: 1 destroyed.
PS E:\terraform-variables\terraform exp5> terraform destroy -var 'region=ap-south-1' -var 'ami=ami-03f4878755434977f' -var 'instance_type=t2.micro'

No changes. No objects need to be destroyed.

Either you have not created any objects yet or the existing objects were already deleted outside
of Terraform.

Destroy complete! Resources: 0 destroyed.
PS E:\terraform-variables\terraform exp5>
```